		-
Telephone:  Responsible Radiation Oncologist(s)	Fax:	-
Telephone:	e-mail:	_

This questionnaire and benchmark have been accepted by all of the NCI funded cooperative groups and

3. What is your IMRT planning system?	Version No.
4nlsfyrour treatment planning system cappable of transferring and yes	5pgtiont's beams to a QAppant o
If no, how do you verify the dose distribution	
☐ head and neck ☐ prostate ☐ 1 1Td ( 628.5 504 6.53 he system? T2 1 Tf 102.7	75 547.e Td ( )Tj -504 -13.5 T266 12 Tf -66 12Tc e.e Tj 0 o

j.

e. How are patients immobilized for these treatments?					
f. What PTV marg	ins do you usual	ly use for this si	te?mm		
g. To what isodose line are IMRT treatments for these patients commonly prescribed (relative to					
maximum dose	e)?				
	□95%	□90%	□ 85%	□80%	Other
h. How do you verify field positioning relative to the patient'p22natomy?					
orthogo	nal films				
beam films using a jaw setting that enclos					

in \_\_\_\_\_ (#) axial planes

& in \_\_\_\_ (#) sagittal planes

& in \_\_\_\_\_(#)coronal planes

c. Type of QA phantom:
anthropomorphic phantom Vendor:
geometric phantom:(material)
shape:   square   cylinder   o t h e r
size of phantomcm Xcm Xcm
d. For this measurement
☐ the patient's beams are transferred to the QA phantom by the planning system.
the patient's beams are not transferred to the QA phantom in software, but an anthropomorphic phantom is used to simulate approximate patient geometry for dose measurements.
e. What agreement between planned and measured doses for individual patients is considered
acceptable at your institution?
For absolute dose in target volume (high dose) region
For absolute dose in critical normal tissue region
For absolute dose in low dose region
For relative dose in high dose gradient region
For relative dose in low dose gradient region
in high dose region (target)
in low dose region
f. Wre your monitor unit calculations checked by an independent program?
□ no □ yes Vendor:

b. RTOG institutions and institutions choosing to satisfy the benchmark requirement with an RPC

## **BENCHMARK CASE:**

## **Patient Data Selection:**

in the head region or in the pelver from your institution shall be used. The image data set shall extend at least superiorly/inferiorly with slice thickness no greater than 3 mm. The geometry of two volume (PTV) and the organ at risk (OAR) is

For "step and shoot" and "sliding window" techniques the treatment plan shall consist of beams from at least 4 and not more than 9 gantry angles. Tomotherapy and other dynamic arc treatments (e.g. RapidArc and VMAT) shall be deliv